FIG.1

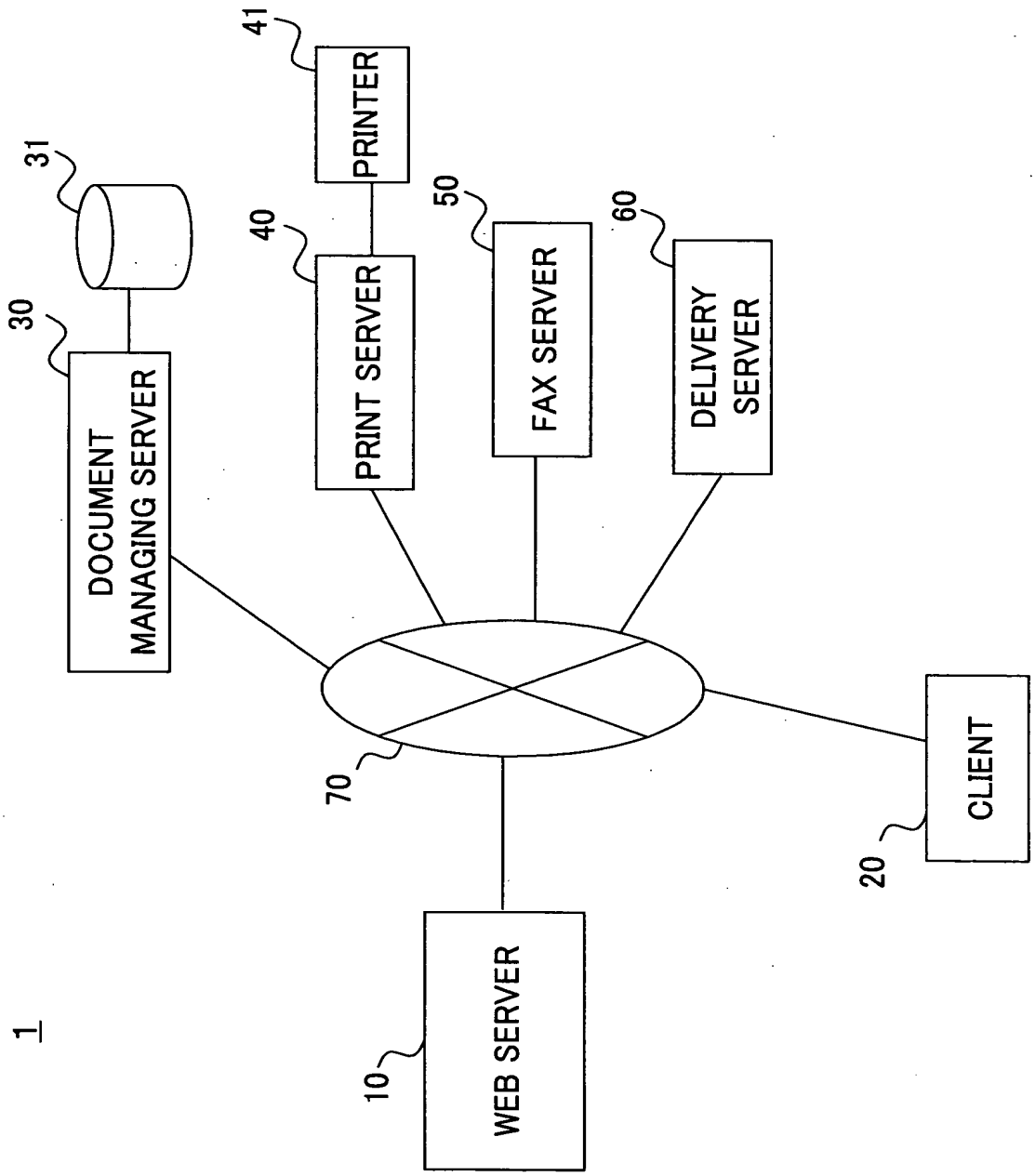

1
WEB SERVER
10
CLIENT
20
70
DOCUMENT MANAGING SERVER
30
31
PRINT SERVER
40
PRINTER
41
FAX SERVER
50
DELIVERY SERVER
60

FIG.2

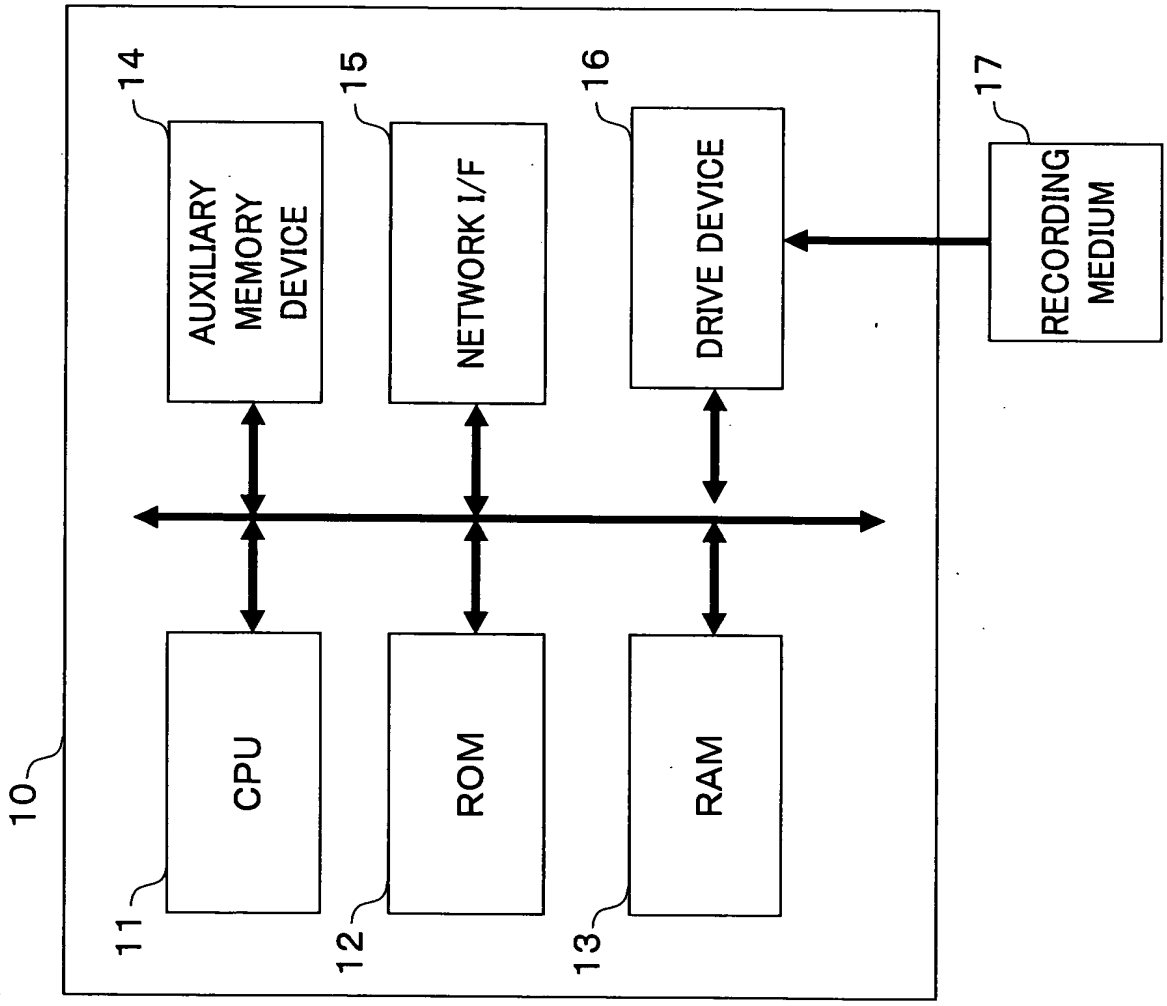

10
CPU
11
ROM
12
RAM
13
AUXILIARY MEMORY DEVICE
14
NETWORK I/F
15
DRIVE DEVICE
16
RECORDING MEDIUM
17

FIG.3

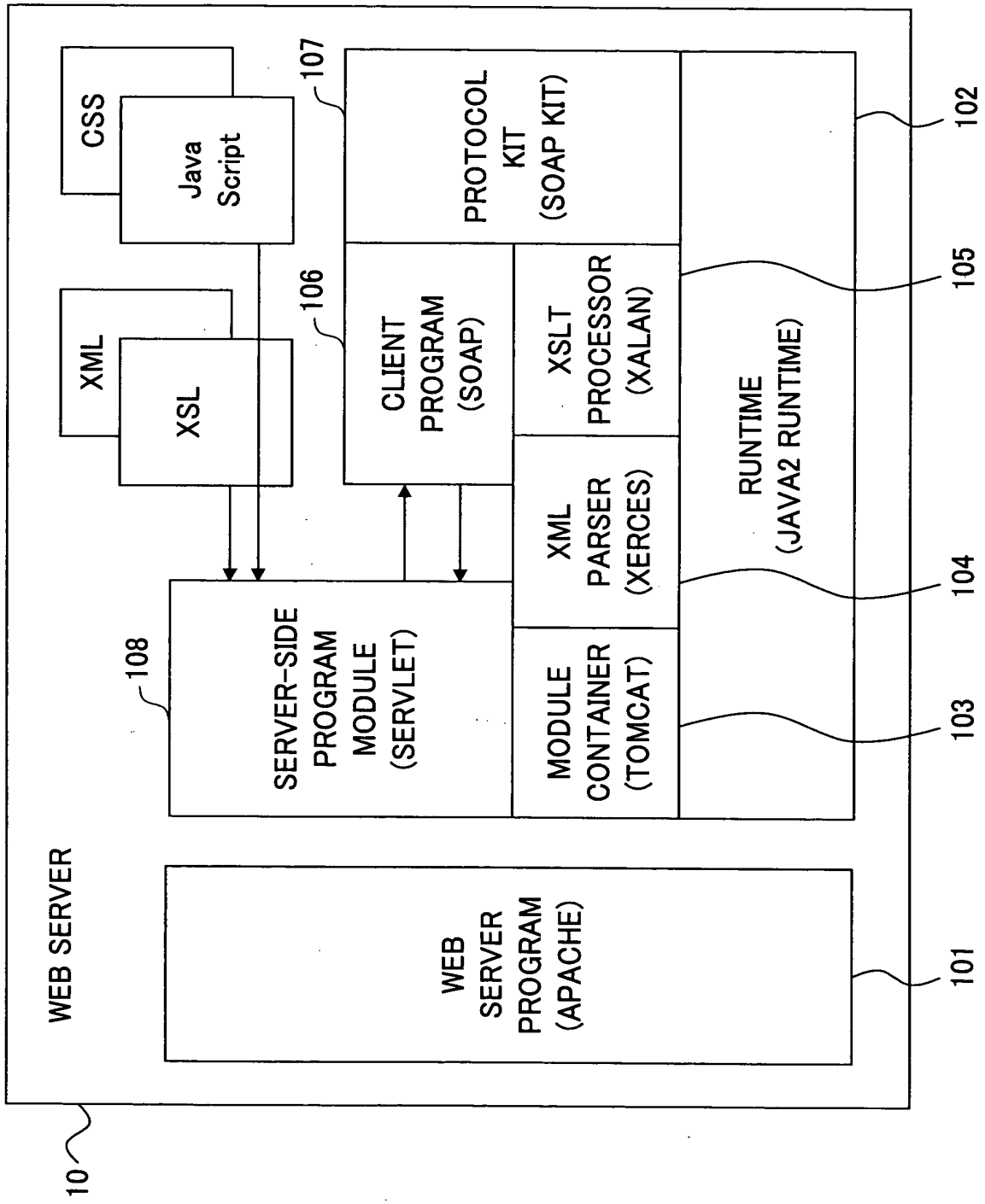

10
WEB SERVER
WEB SERVER PROGRAM (APACHE)
101
MODULE CONTAINER (TOMCAT)
XML PARSER (XERCES)
XSLT PROCESSOR (XALAN)
RUNTIME (JAVA2 RUNTIME)
102
103
104
105
SERVER-SIDE PROGRAM MODULE (SERVLET)
108
CLIENT PROGRAM (SOAP)
106
PROTOCOL KIT (SOAP KIT)
107
XSL
XML
Java Script
CSS

FIG.4

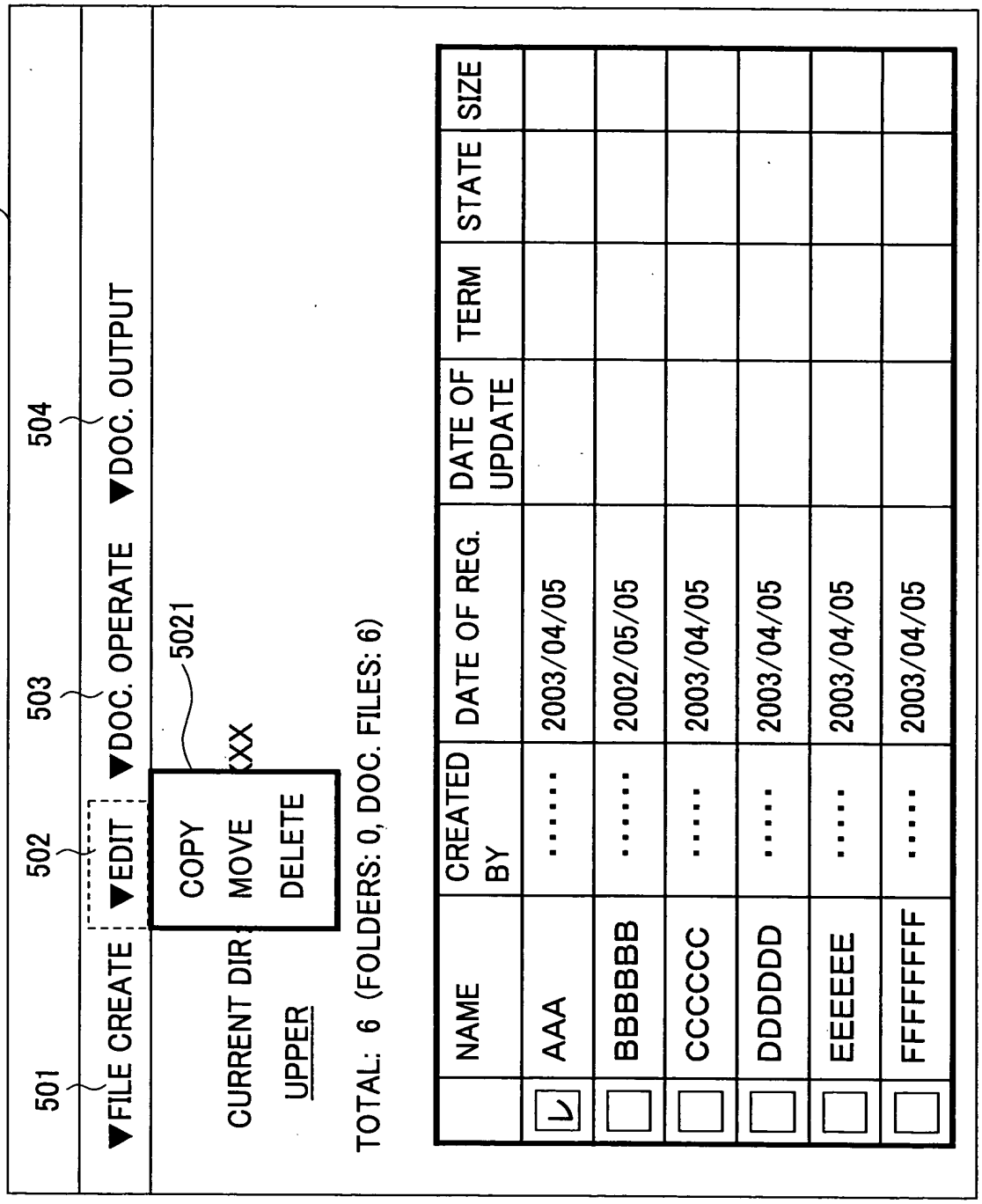

500
501
502
503
504
▼FILE CREATE
▼EDIT
▼DOC. OPERATE
▼DOC. OUTPUT
5021
COPY
MOVE
DELETE
CURRENT DIR: XX
UPPER
TOTAL: 6 (FOLDERS: 0, DOC. FILES: 6)
NAME
CREATED BY
DATE OF REG.
DATE OF UPDATE
TERM
STATE
SIZE
AAA
BBBBBB
CCCCCC
DDDDDD
EEEEEE
FFFFFFFF
2003/04/05
2002/05/05
2003/04/05
2003/04/05
2003/04/05
2003/04/05

FIG.5

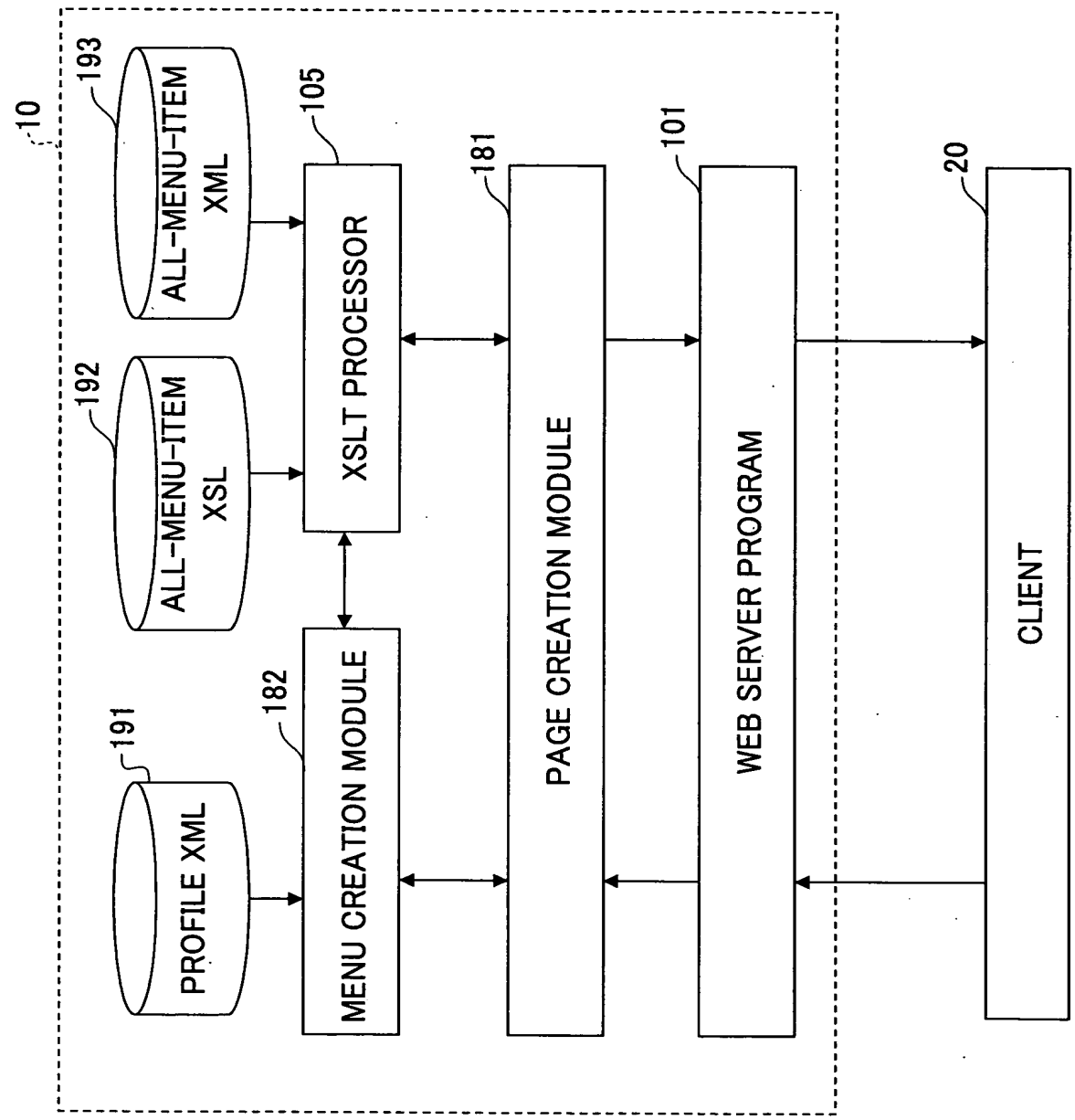

10
193
ALL-MENU-ITEM XML
105
XSLT PROCESSOR
181
PAGE CREATION MODULE
101
WEB SERVER PROGRAM
20
CLIENT
192
ALL-MENU-ITEM XSL
191
PROFILE XML
182
MENU CREATION MODULE

FIG.6

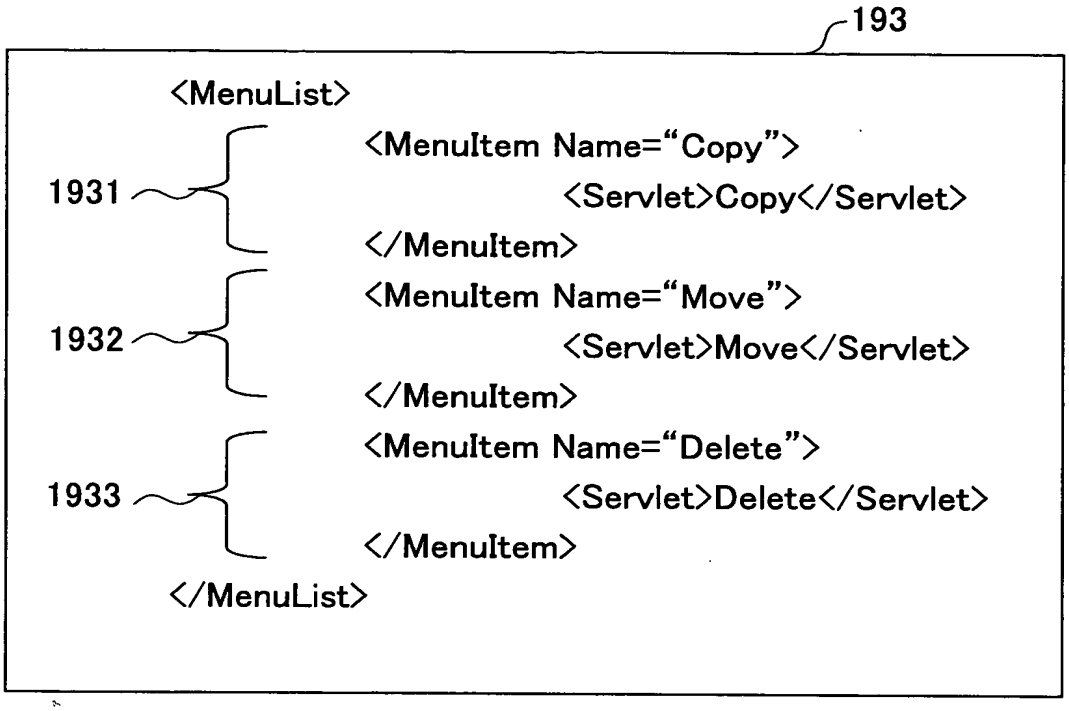
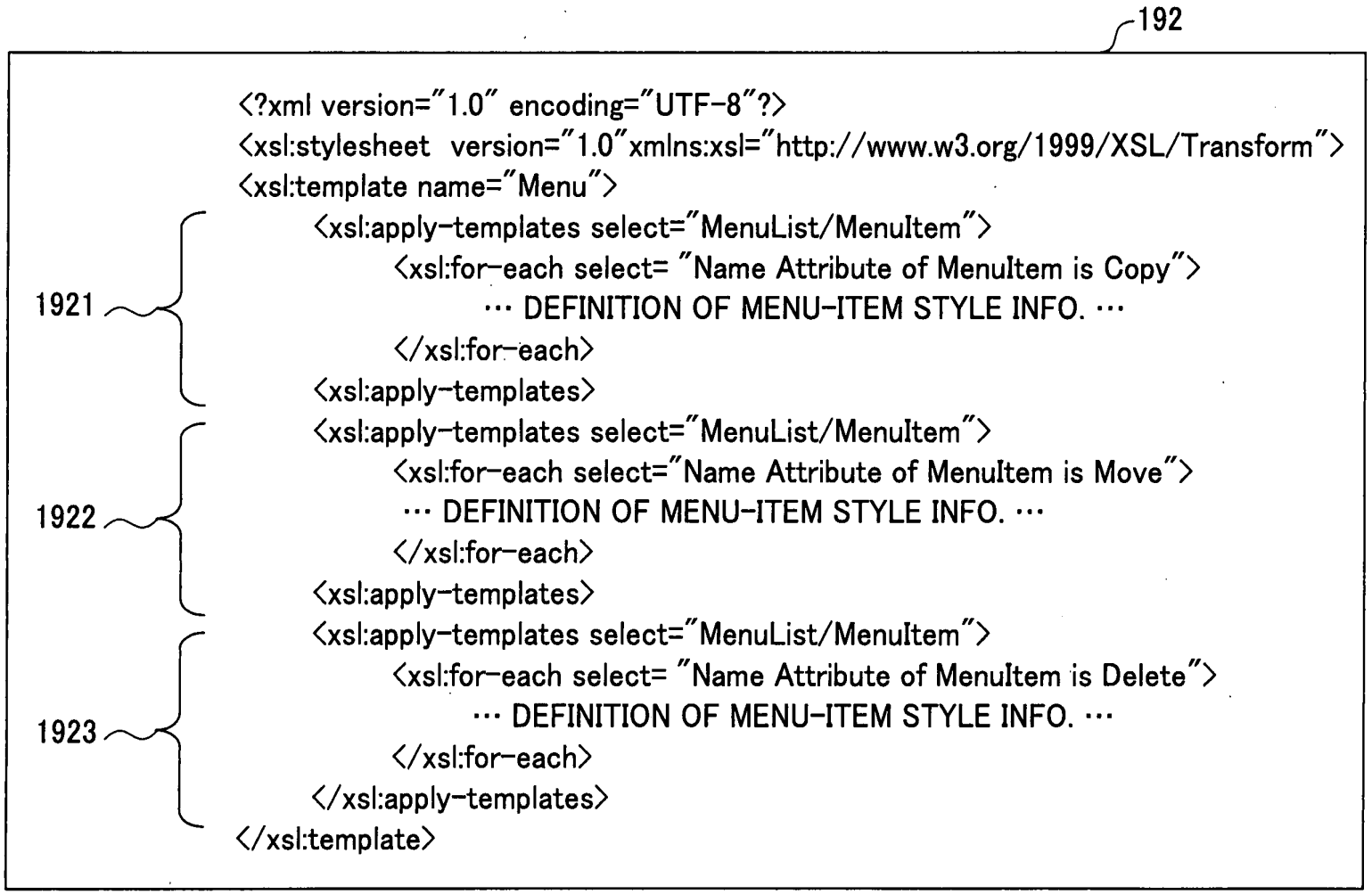
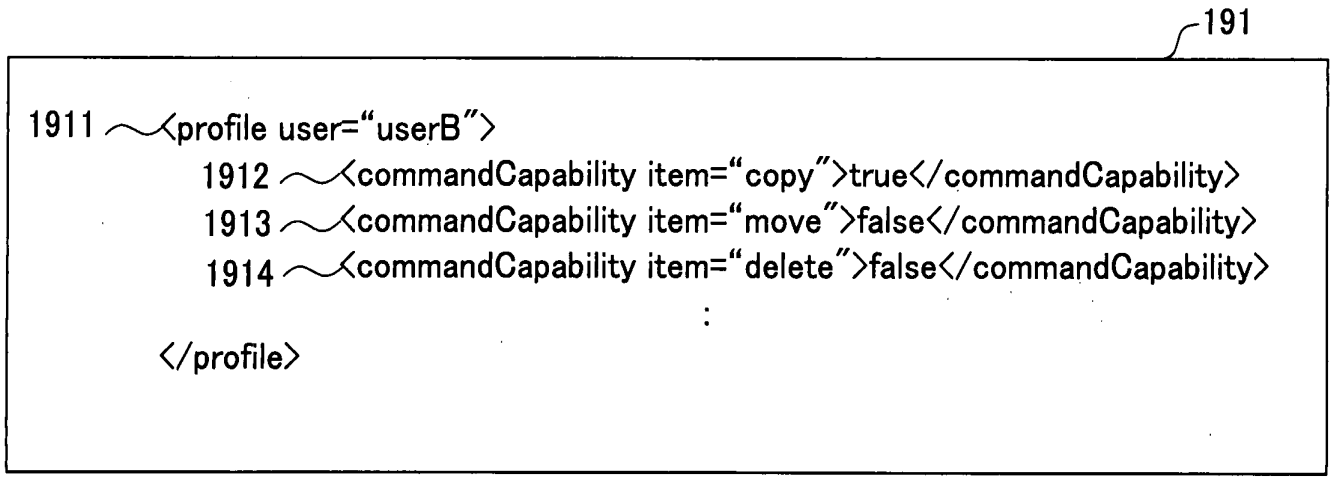

193
<MenuList>
1931
<MenuItem Name="Copy">
<Servlet>Copy</Servlet>
</MenuItem>
1932
<MenuItem Name="Move">
<Servlet>Move</Servlet>
</MenuItem>
1933
<MenuItem Name="Delete">
<Servlet>Delete</Servlet>
</MenuItem>
</MenuList>

FIG.7



OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 7 OF 30

FIG.8



OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 8 OF 30

FIG.9

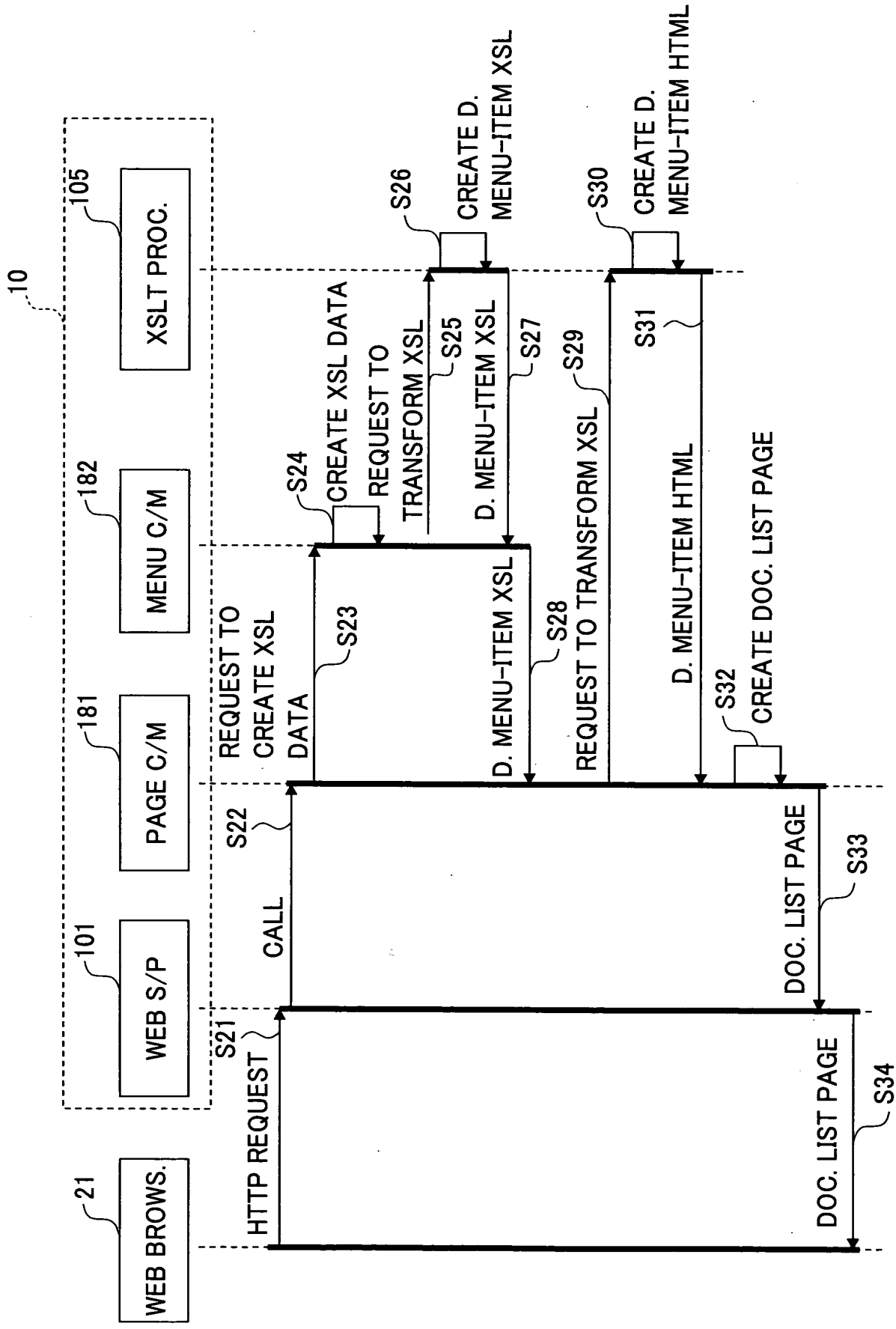

10
WEB BROWS.
21
WEB S/P
101
PAGE C/M
181
MENU C/M
182
XSLT PROC.
105
HTTP REQUEST
S21
CALL
S22
REQUEST TO CREATE XSL DATA
S23
CREATE XSL DATA
S24
REQUEST TO TRANSFORM XSL
S25
CREATE D. MENU-ITEM XSL
S26
D. MENU-ITEM XSL
S27
REQUEST TO TRANSFORM XSL
S28
CREATE D. MENU-ITEM HTML
S29
D. MENU-ITEM HTML
S30
CREATE DOC. LIST PAGE
S31
DOC. LIST PAGE
S32
DOC. LIST PAGE
S33
DOC. LIST PAGE
S34

FIG.10

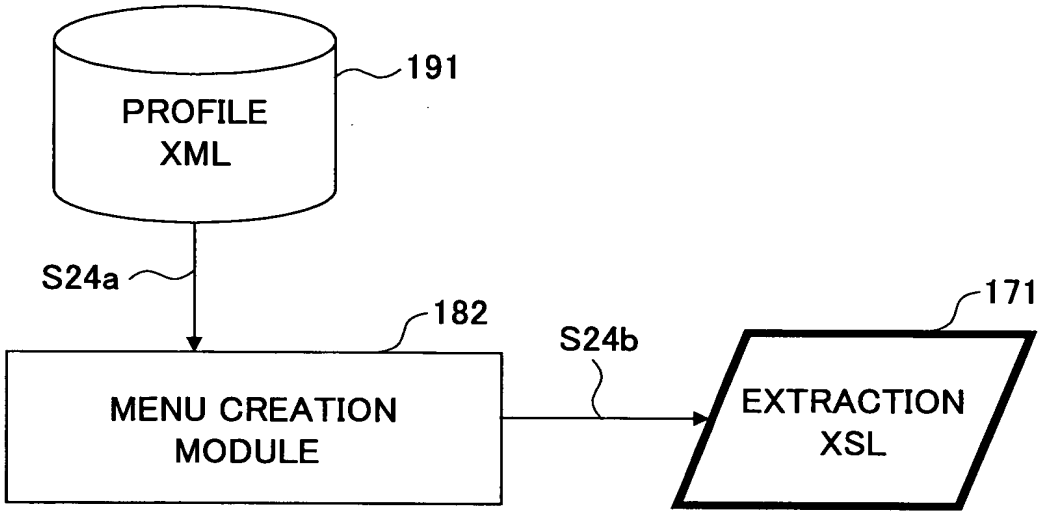

191
PROFILE
XML
S24a
182
MENU CREATION
MODULE
S24b
171
EXTRACTION
XSL

FIG.11

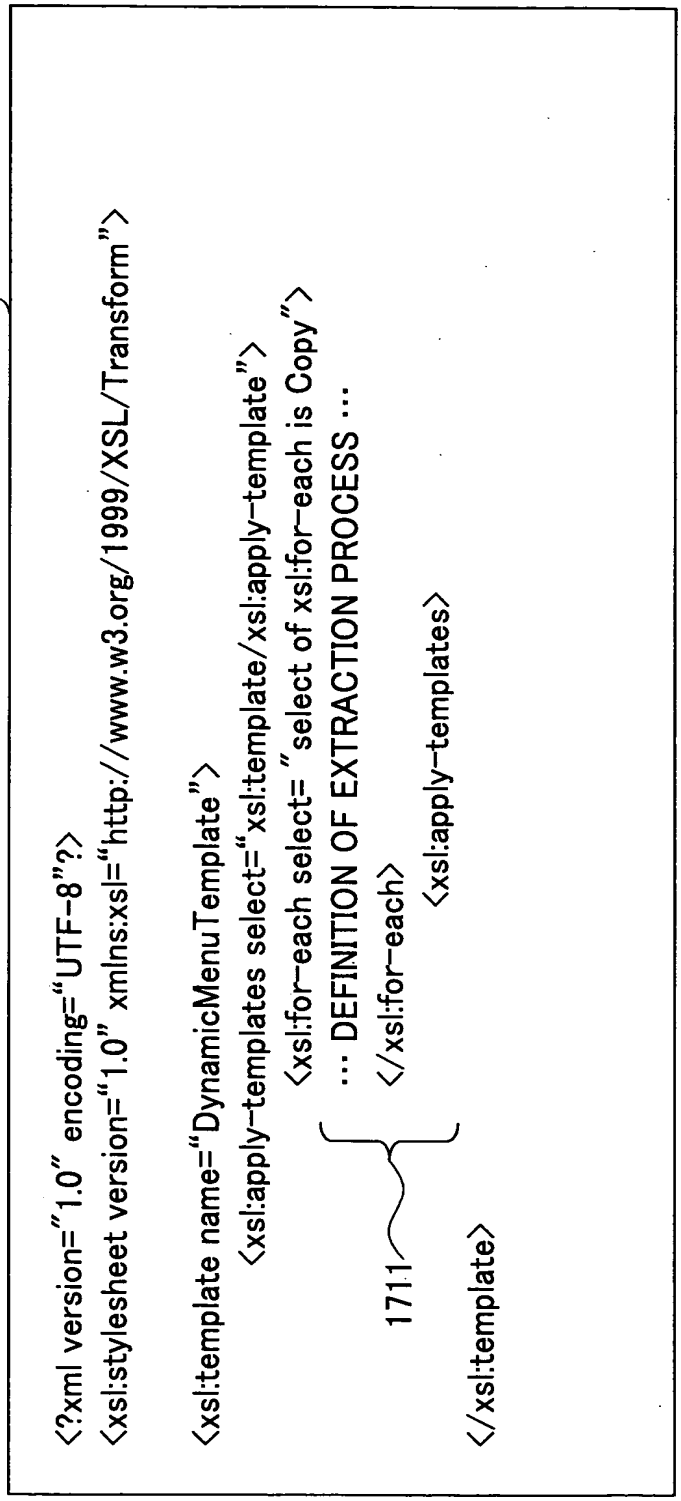

171
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template name="DynamicMenuTemplate">
<xsl:apply-templates select="xsl:template/xsl:apply-template">
<xsl:for-each select=" select of xsl:for-each is Copy">
... DEFINITION OF EXTRACTION PROCESS ...
</xsl:for-each>
1711
<xsl:apply-templates>
</xsl:template>

FIG.12

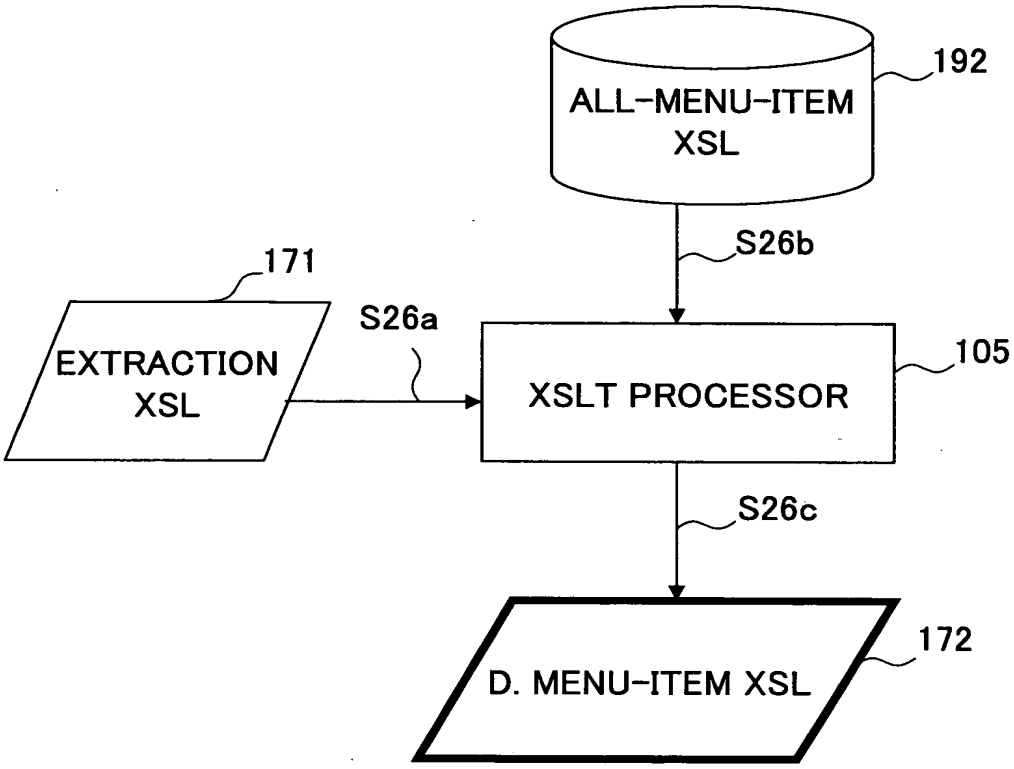

ALL-MENU-ITEM XSL
192
S26b
171
EXTRACTION XSL
S26a
XSLT PROCESSOR
105
S26c
D. MENU-ITEM XSL
172

FIG.13

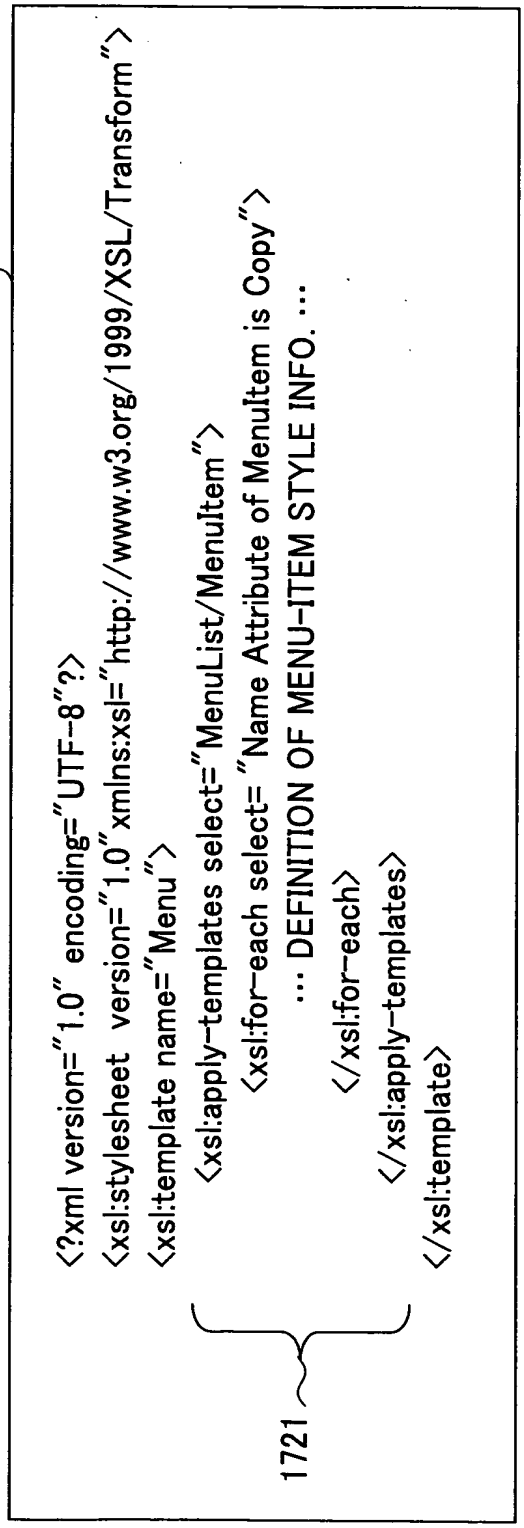

172
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template name="Menu">
<xsl:apply-templates select="MenuList/MenuItem">
<xsl:for-each select="Name Attribute of MenuItem is Copy">
... DEFINITION OF MENU-ITEM STYLE INFO. ...
</xsl:for-each>
</xsl:apply-templates>
</xsl:template>
1721

FIG.14

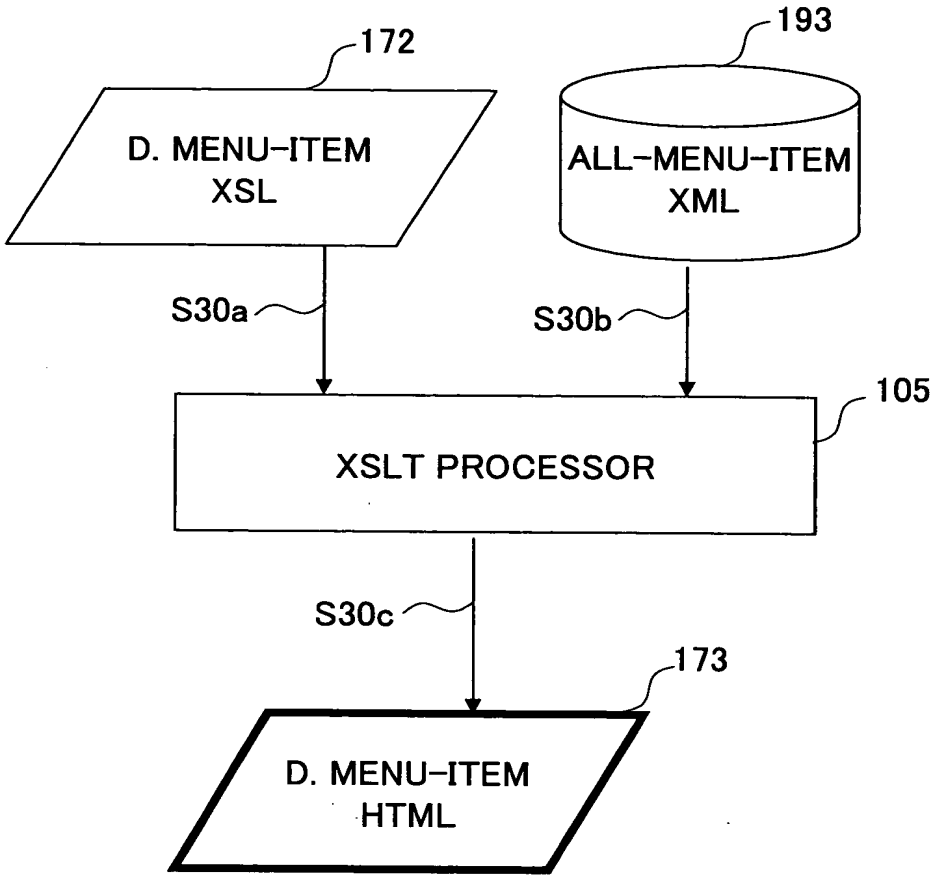

172
D. MENU-ITEM XSL
193
ALL-MENU-ITEM XML
S30a
S30b
105
XSLT PROCESSOR
S30c
173
D. MENU-ITEM HTML

FIG.15

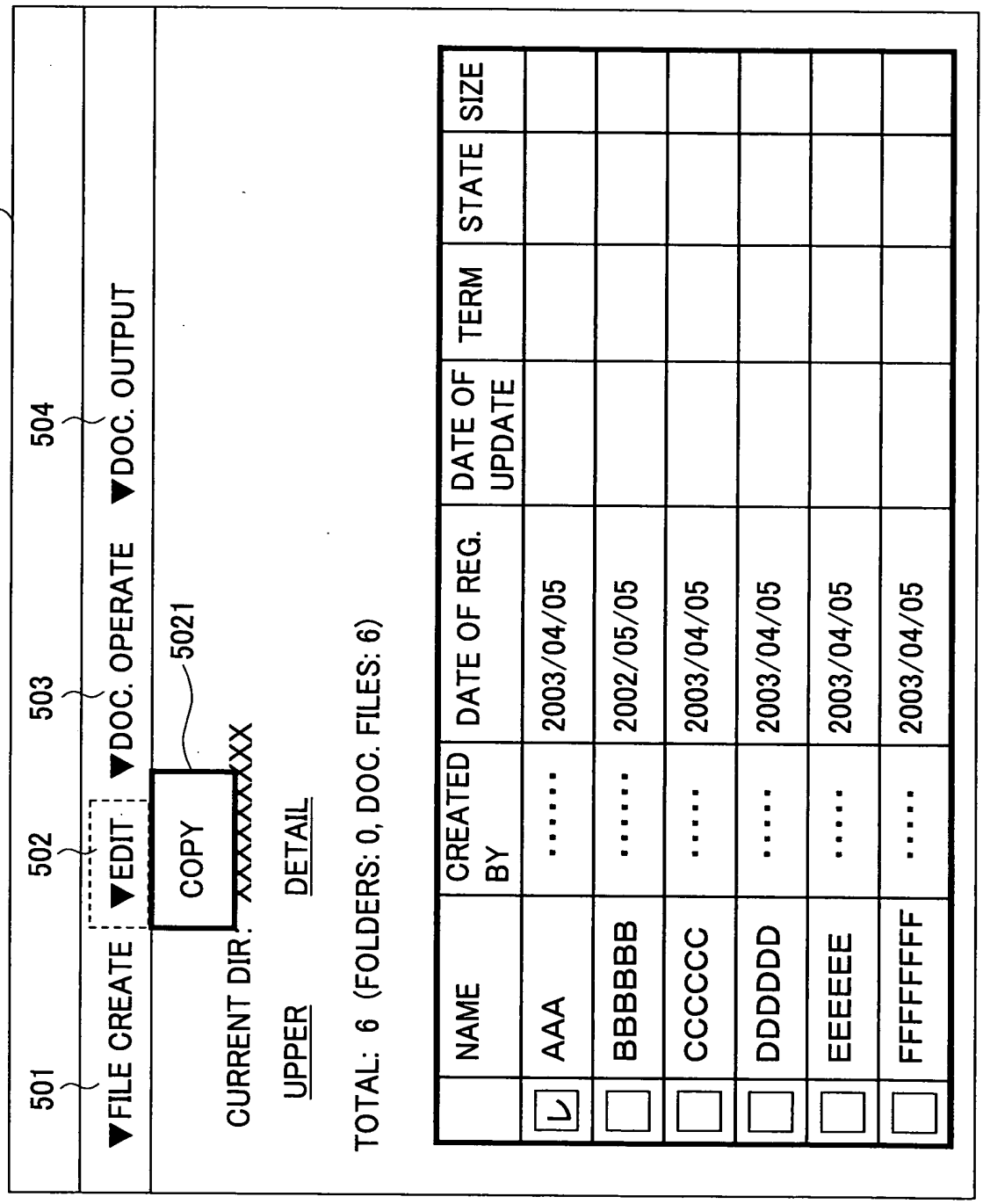

500
501
502
503
504
▼FILE CREATE
▼EDIT
▼DOC. OPERATE
▼DOC. OUTPUT
COPY
5021
CURRENT DIR. XXXXXXXXX
UPPER
DETAIL
TOTAL: 6 (FOLDERS: 0, DOC. FILES: 6)
NAME
CREATED BY
DATE OF REG.
DATE OF UPDATE
TERM
STATE
SIZE
AAA
BBBBBB
CCCCCC
DDDDDD
EEEEEE
FFFFFFF
2003/04/05
2002/05/05
2003/04/05
2003/04/05
2003/04/05
2003/04/05

FIG.16

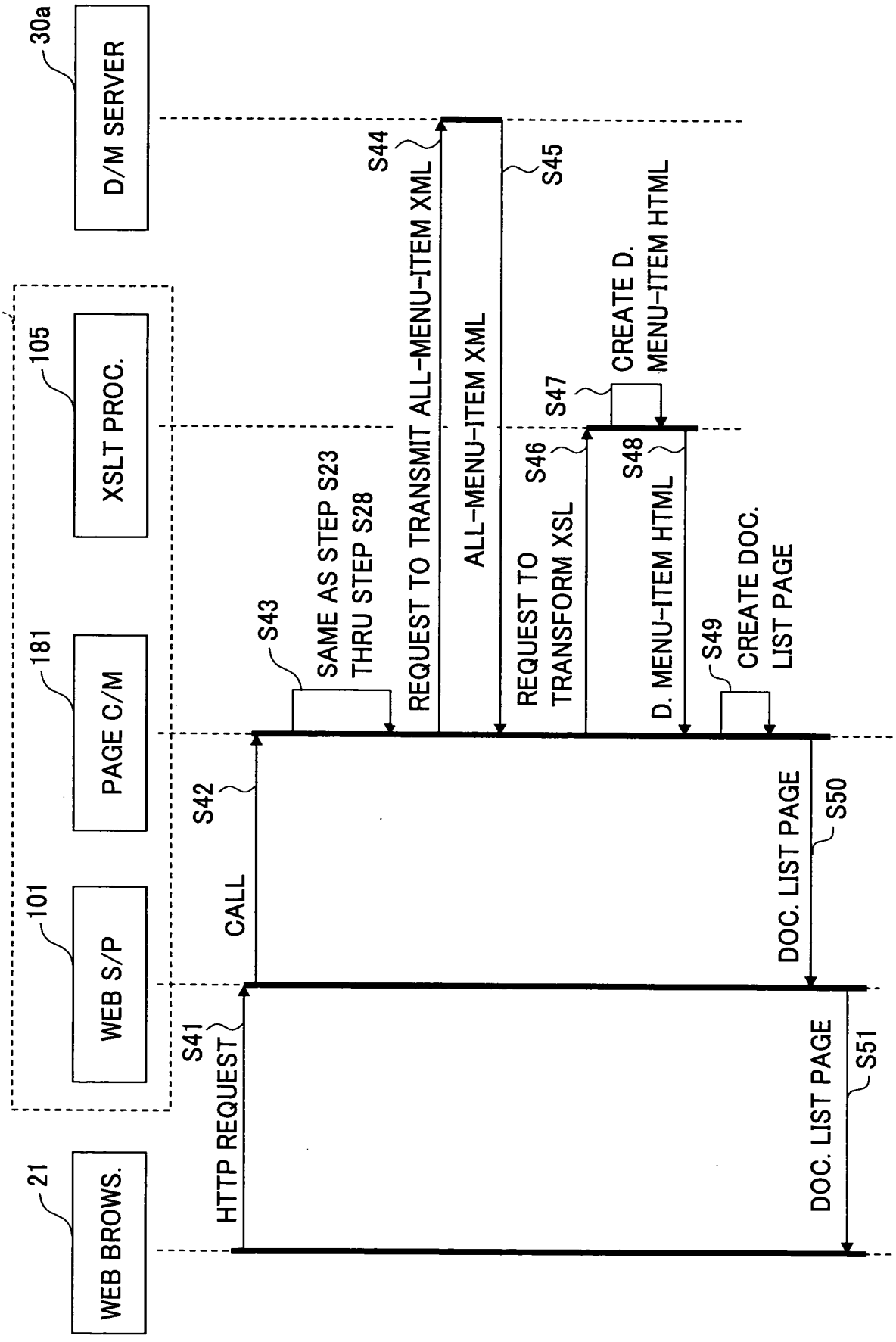
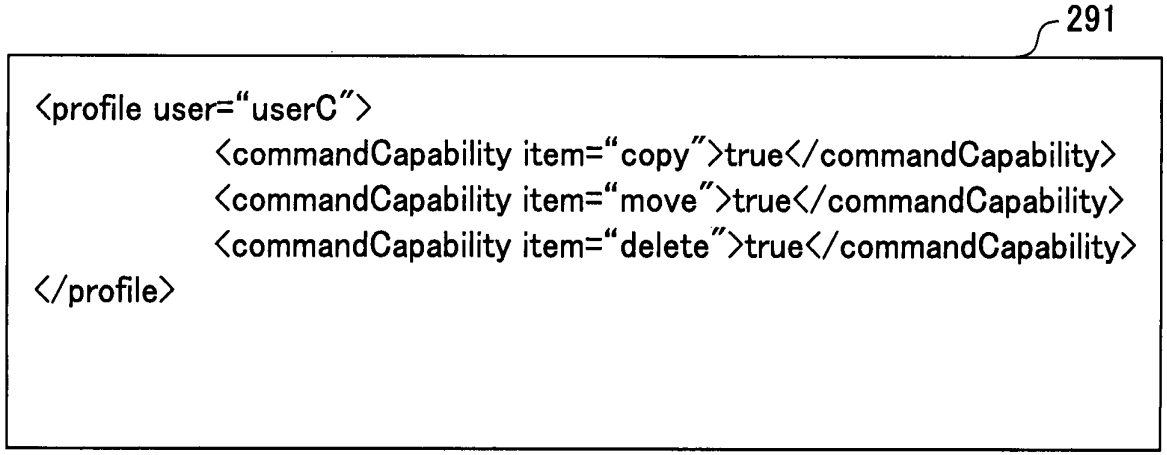
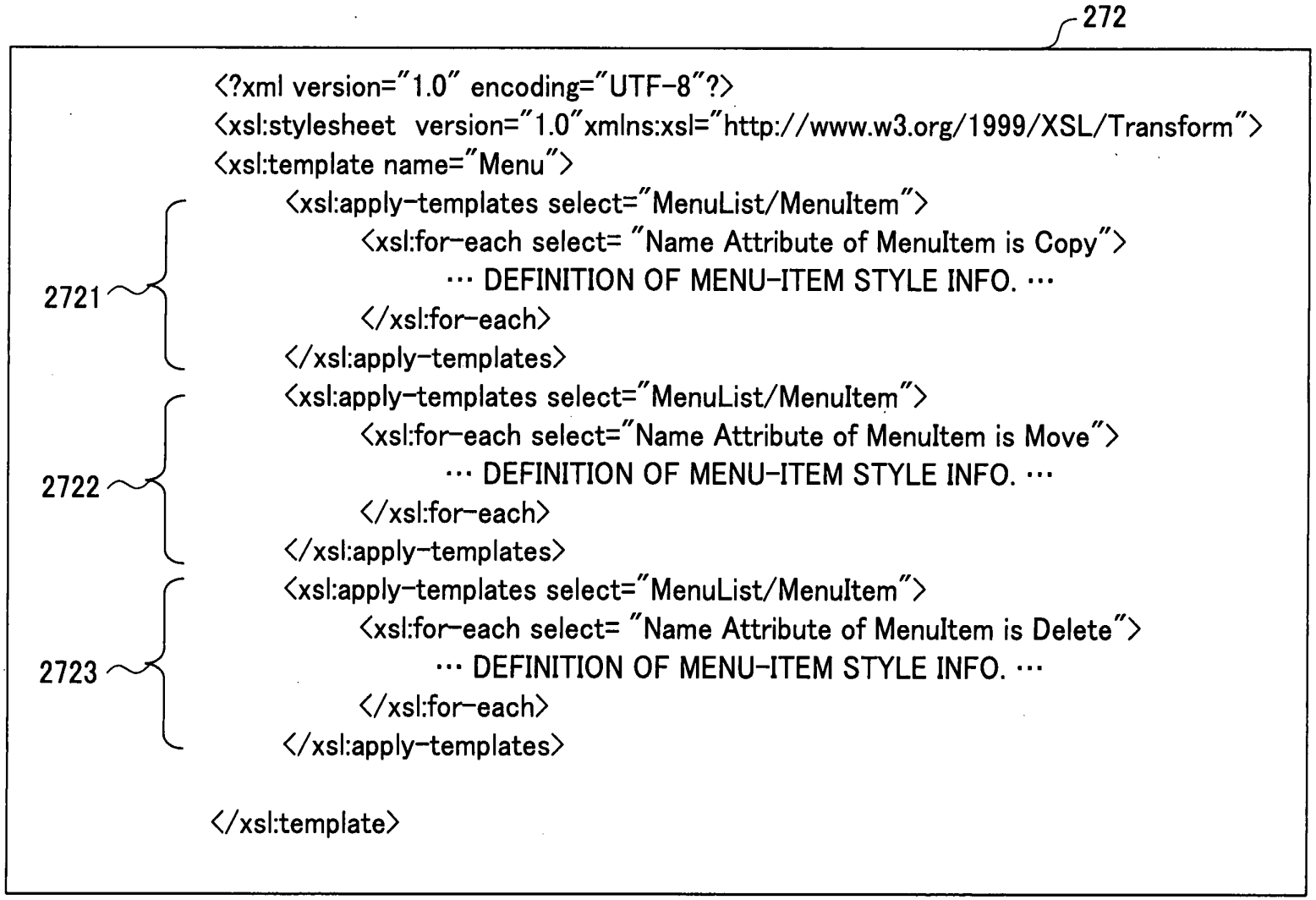

10
WEB BROWS.
21
WEB S/P
101
PAGE C/M
181
XSLT PROC.
105
D/M SERVER
30a
HTTP REQUEST
S41
CALL
S42
SAME AS STEP S23 THRU STEP S28
S43
REQUEST TO TRANSMIT ALL-MENU-ITEM XML
S44
ALL-MENU-ITEM XML
S45
REQUEST TO TRANSFORM XSL
S46
CREATE D. MENU-ITEM HTML
S47
D. MENU-ITEM HTML
S48
CREATE DOC. LIST PAGE
S49
DOC. LIST PAGE
S50
DOC. LIST PAGE
S51

FIG.17



OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 17 OF 30

FIG.18



OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 18 OF 30

FIG.19

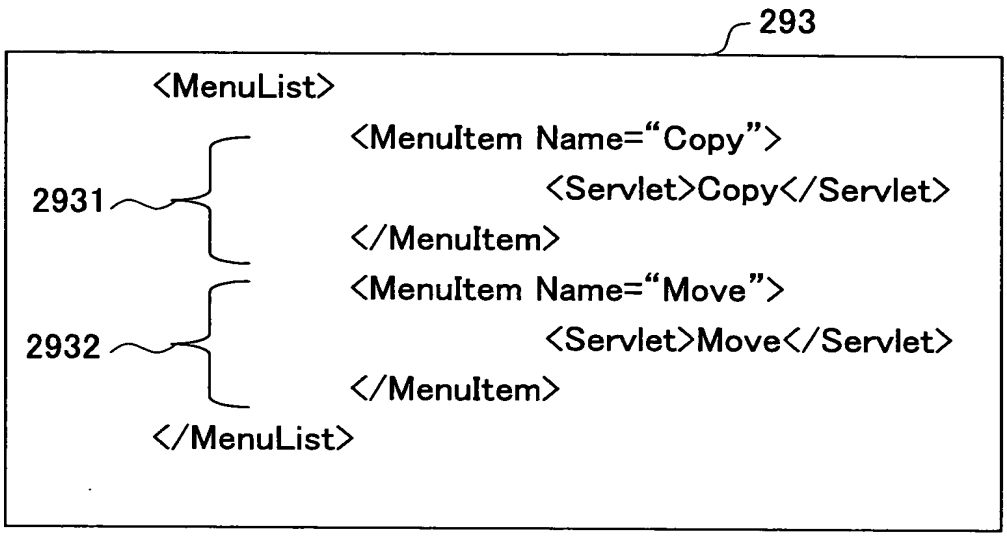

293
<MenuList>
<MenuItem Name="Copy">
<Servlet>Copy</Servlet>
</MenuItem>
2931
<MenuItem Name="Move">
<Servlet>Move</Servlet>
</MenuItem>
2932
</MenuList>

FIG.20

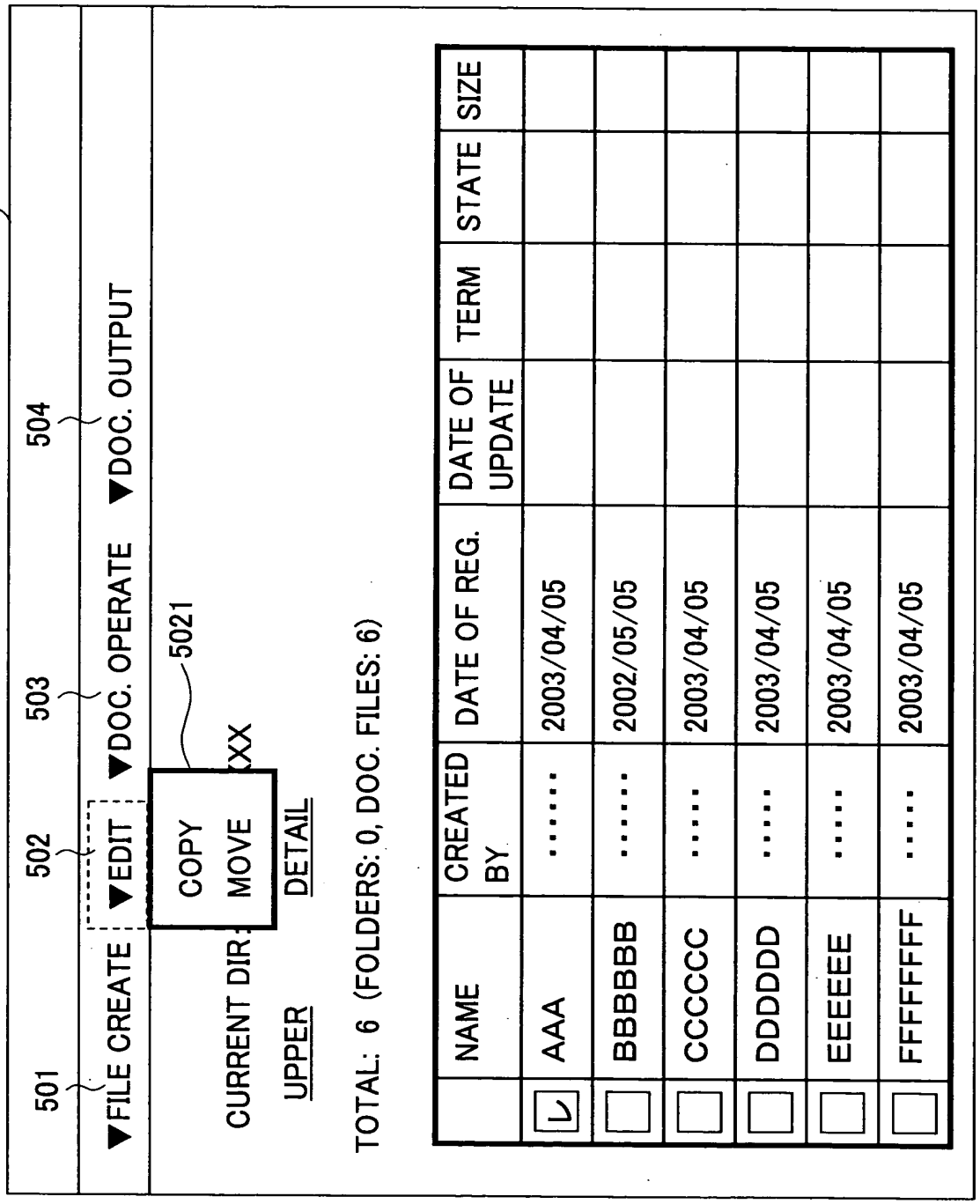

500
501
502
503
504
▼FILE CREATE
▼EDIT
▼DOC. OPERATE
▼DOC. OUTPUT
COPY
MOVE
DETAIL
5021
CURRENT DIR: XX
UPPER
TOTAL: 6 (FOLDERS: 0, DOC. FILES: 6)
NAME
CREATED BY
DATE OF REG.
DATE OF UPDATE
TERM
STATE
SIZE
AAA
BBBBBB
CCCCCC
DDDDDD
EEEEEE
FFFFFFFF
2003/04/05
2002/05/05
2003/04/05
2003/04/05
2003/04/05
2003/04/05

FIG.21

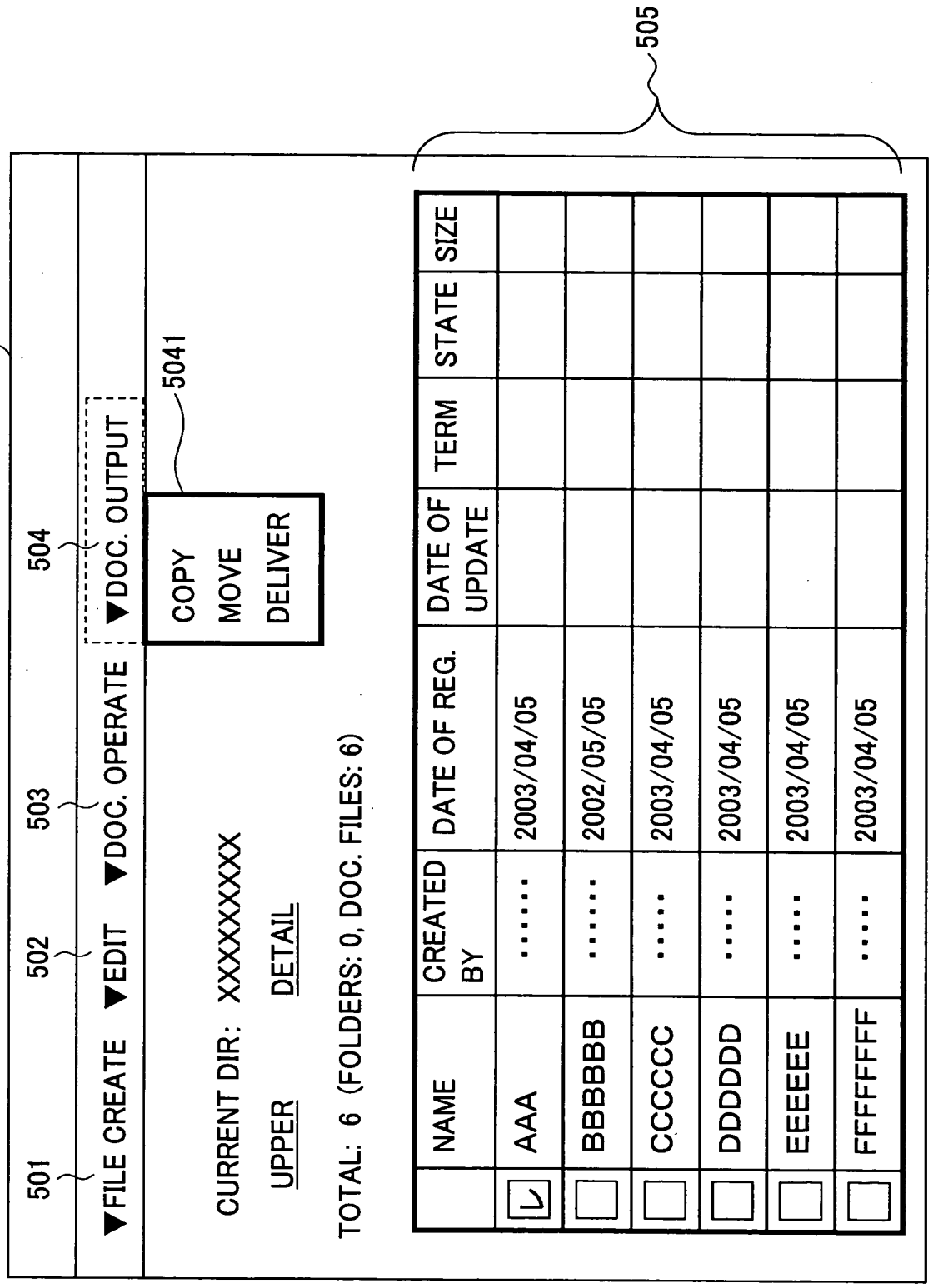

500
501
502
503
504
505
5041
▼FILE CREATE
▼EDIT
▼DOC. OPERATE
▼DOC. OUTPUT
COPY
MOVE
DELIVER
CURRENT DIR: XXXXXXXX
UPPER
DETAIL
TOTAL: 6 (FOLDERS: 0, DOC. FILES: 6)
NAME
CREATED BY
DATE OF REG.
DATE OF UPDATE
TERM
STATE
SIZE
AAA
BBBBBB
CCCCCC
DDDDDD
EEEEEE
FFFFFFF
2003/04/05
2002/05/05
2003/04/05
2003/04/05
2003/04/05
2003/04/05

FIG.22

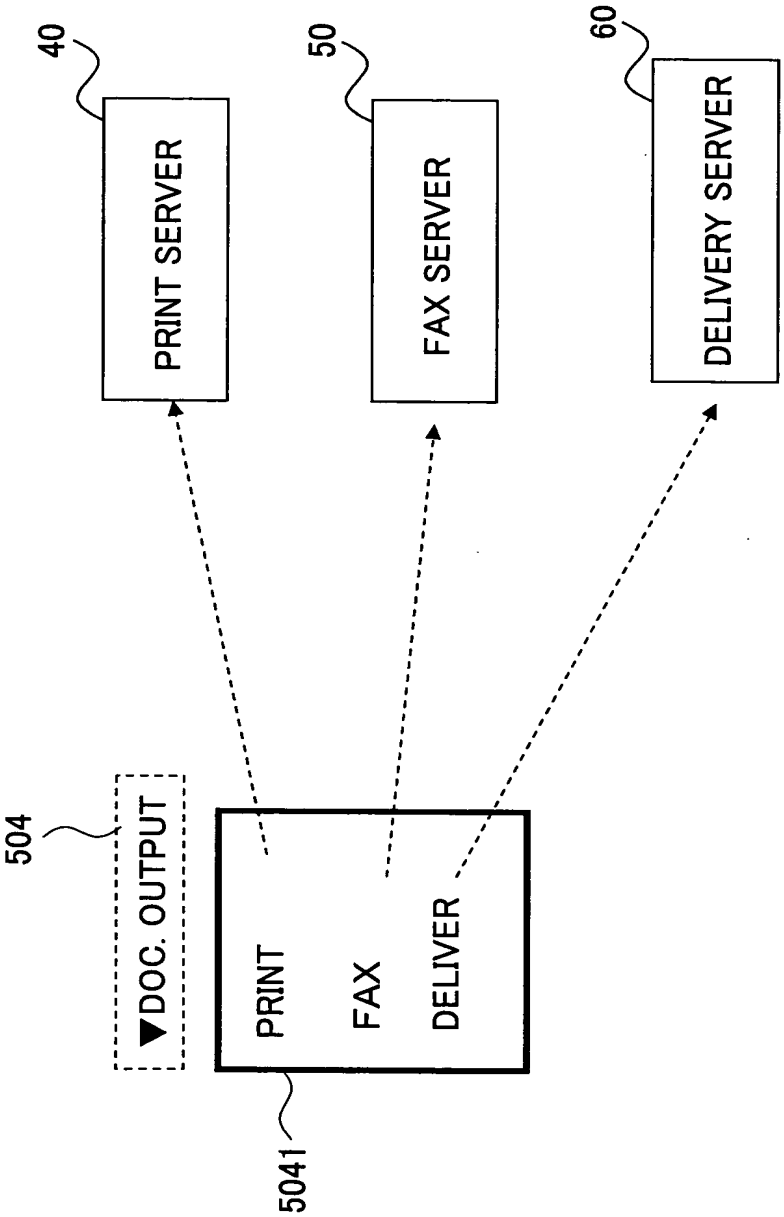

40
PRINT SERVER
50
FAX SERVER
60
DELIVERY SERVER
504
▼DOC. OUTPUT
PRINT
FAX
DELIVER
5041

FIG.23

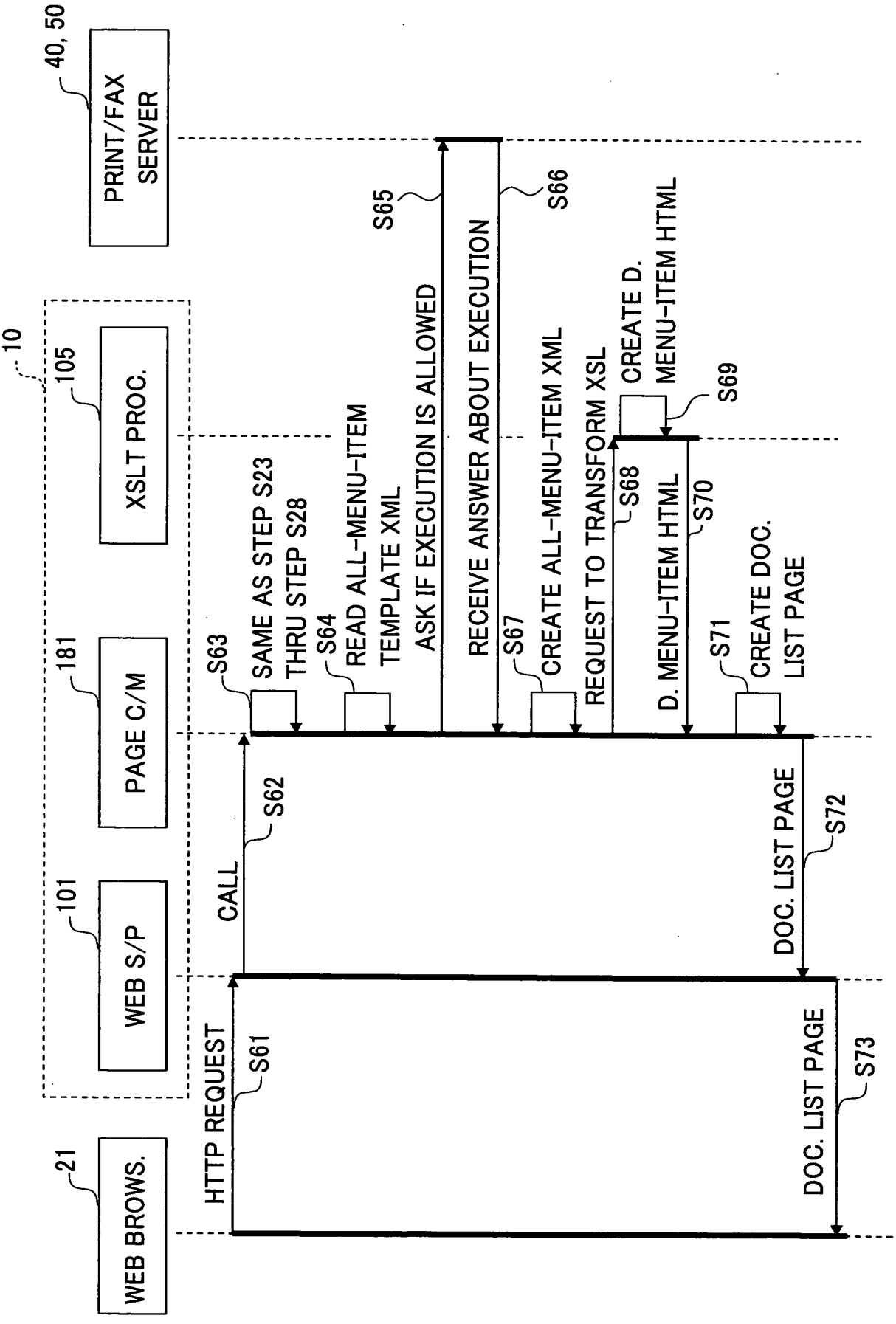

WEB BROWS.
21
WEB S/P
101
PAGE C/M
181
XSLT PROC.
105
10
PRINT/FAX SERVER
40, 50
HTTP REQUEST
S61
CALL
S62
SAME AS STEP S23 THRU STEP S28
S63
READ ALL-MENU-ITEM TEMPLATE XML
S64
ASK IF EXECUTION IS ALLOWED
S65
RECEIVE ANSWER ABOUT EXECUTION
S66
CREATE ALL-MENU-ITEM XML
S67
REQUEST TO TRANSFORM XSL
S68
CREATE D. MENU-ITEM HTML
S69
D. MENU-ITEM HTML
S70
CREATE DOC. LIST PAGE
S71
DOC. LIST PAGE
S72
DOC. LIST PAGE
S73

FIG.24

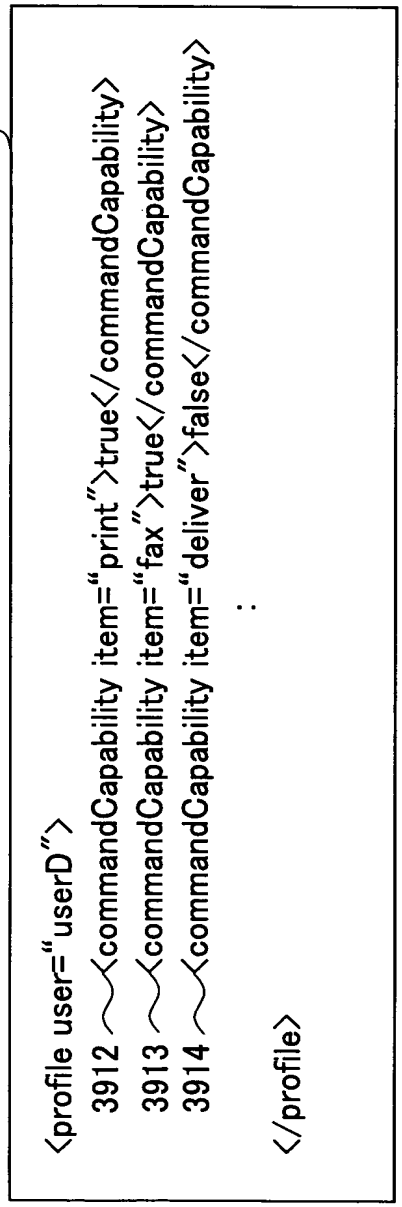
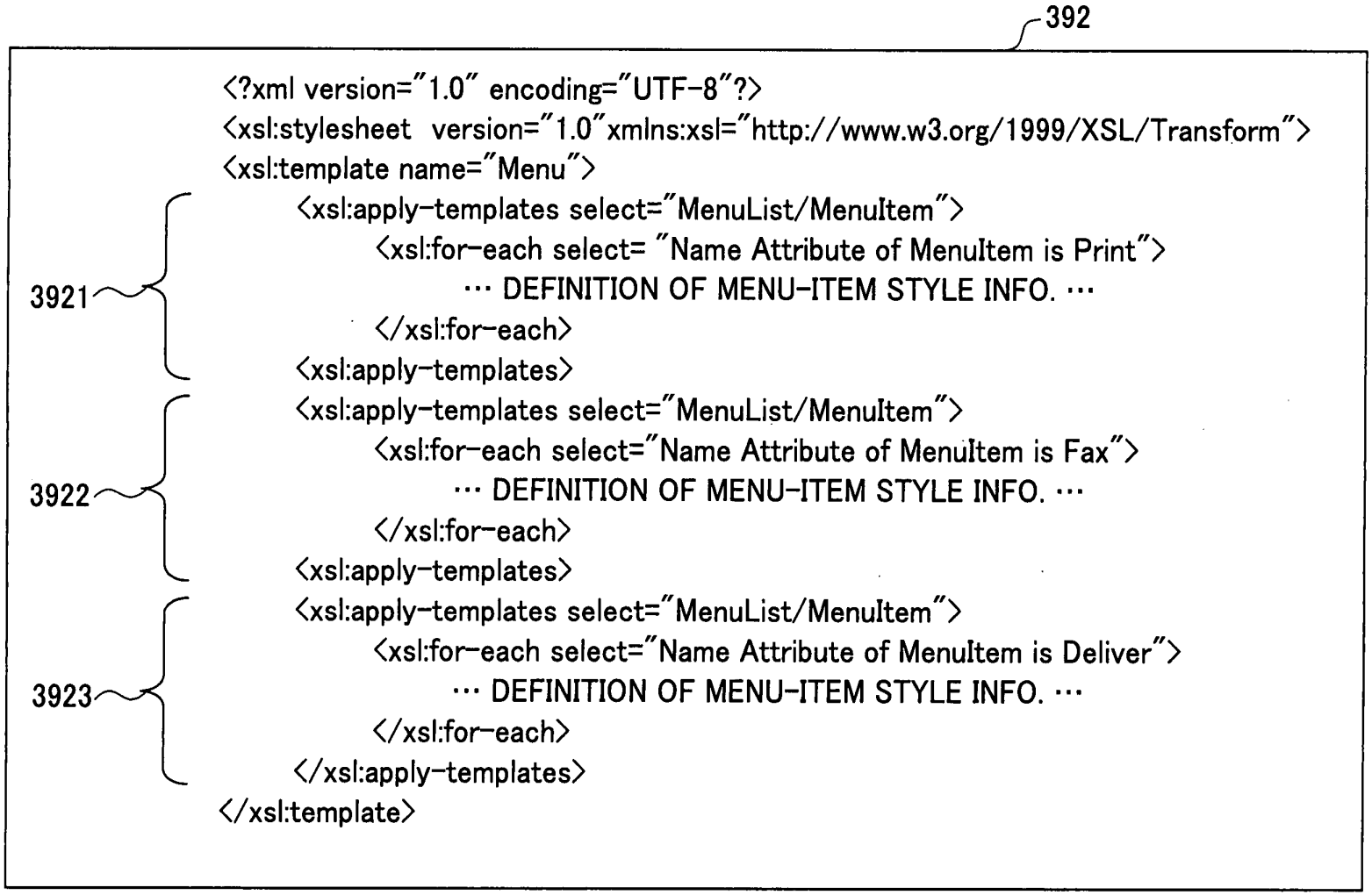

391
<profile user="userD">
3912 <commandCapability item="print">true</commandCapability>
3913 <commandCapability item="fax">true</commandCapability>
3914 <commandCapability item="deliver">false</commandCapability>
:
</profile>

FIG.25



OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 25 OF 30

FIG.26

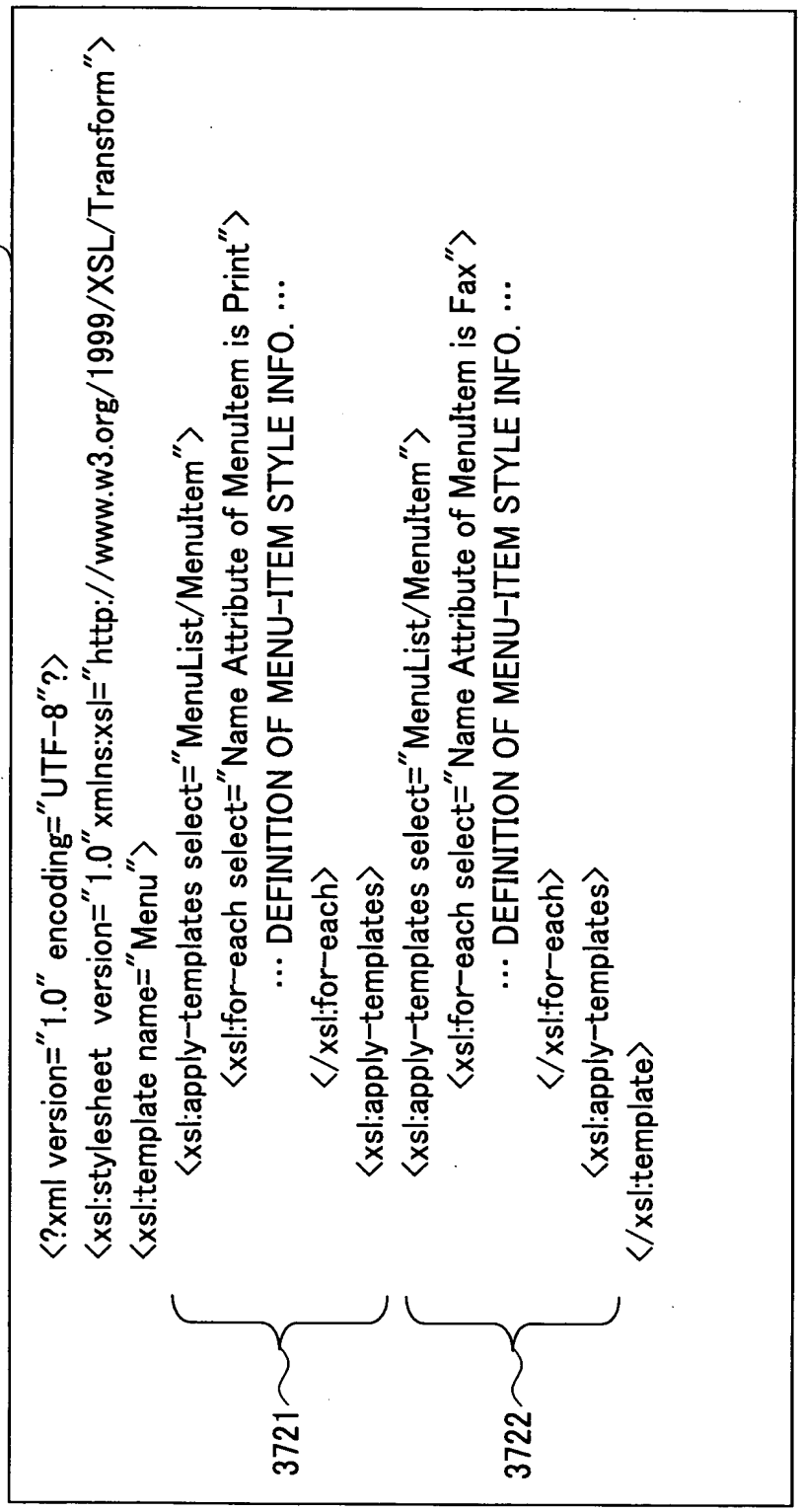

372
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template name="Menu">
<xsl:apply-templates select="MenuList/MenuItem">
<xsl:for-each select="Name Attribute of MenuItem is Print">
... DEFINITION OF MENU-ITEM STYLE INFO. ...
</xsl:for-each>
</xsl:apply-templates>
<xsl:apply-templates select="MenuList/MenuItem">
<xsl:for-each select="Name Attribute of MenuItem is Fax">
... DEFINITION OF MENU-ITEM STYLE INFO. ...
</xsl:for-each>
</xsl:apply-templates>
</xsl:template>
3721
3722

FIG.27

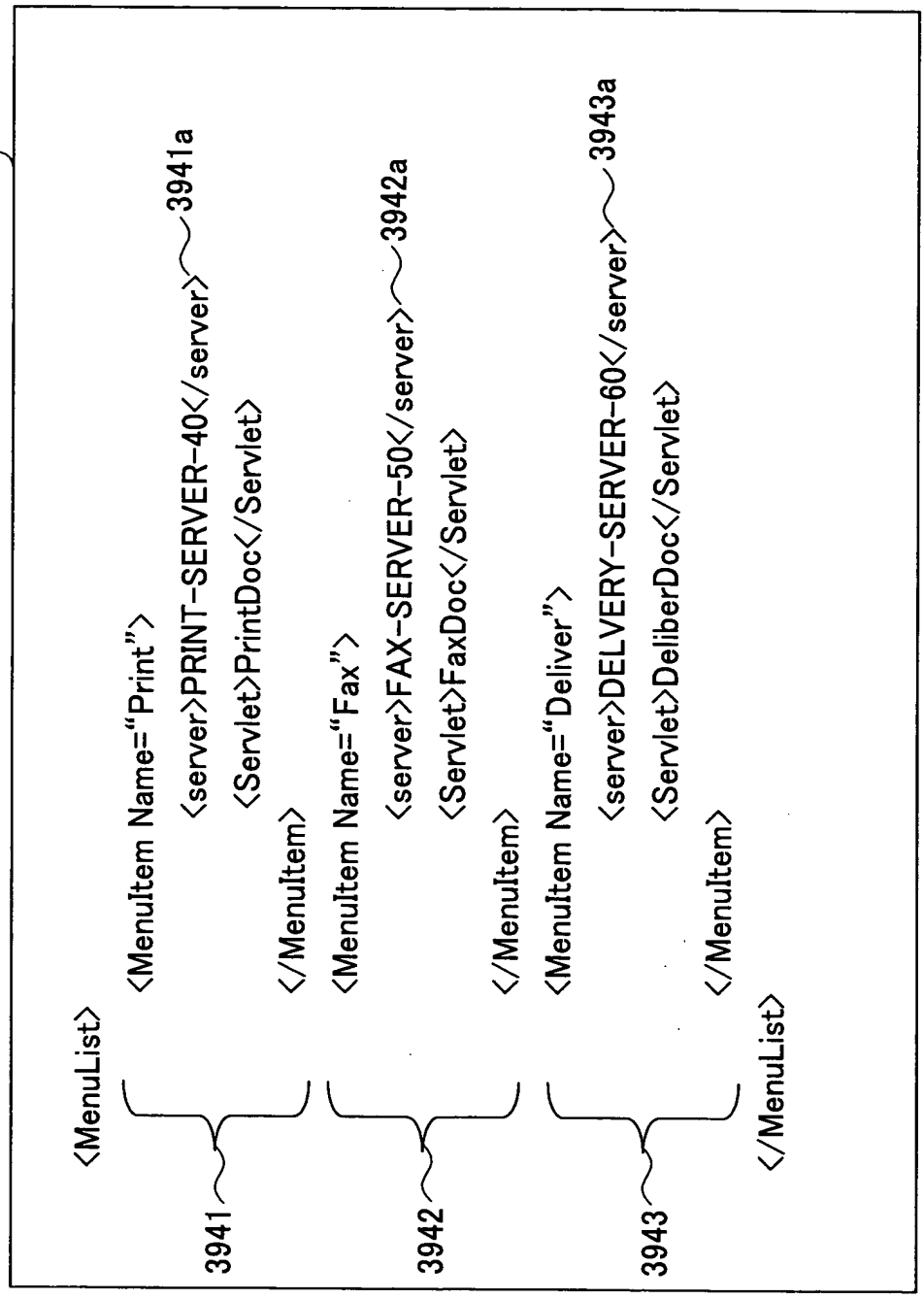

394
<MenuList>
<MenuItem Name="Print">
<server>PRINT-SERVER-40</server>
3941a
<Servlet>PrintDoc</Servlet>
</MenuItem>
<MenuItem Name="Fax">
<server>FAX-SERVER-50</server>
3942a
<Servlet>FaxDoc</Servlet>
</MenuItem>
<MenuItem Name="Deliver">
<server>DELVERY-SERVER-60</server>
3943a
<Servlet>DeliberDoc</Servlet>
</MenuItem>
</MenuList>
3941
3942
3943

FIG.28

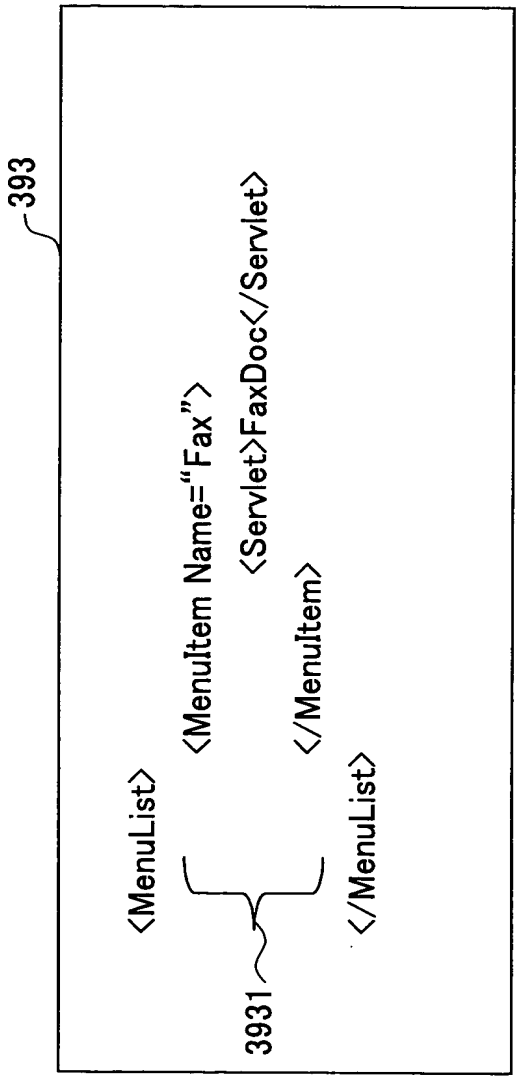
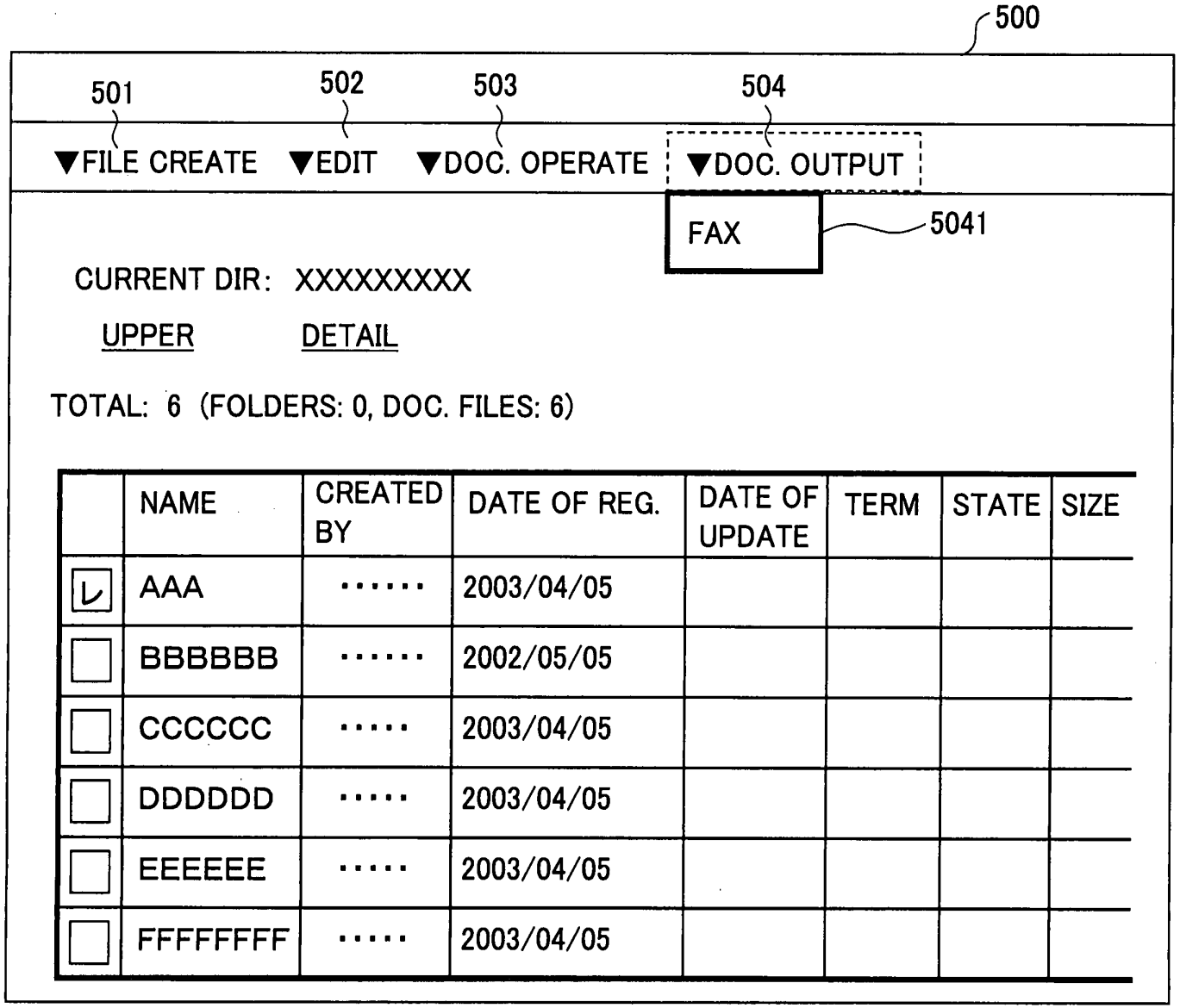

393
<MenuList>
<MenuItem Name="Fax">
<Servlet>FaxDoc</Servlet>
</MenuItem>
</MenuList>
3931

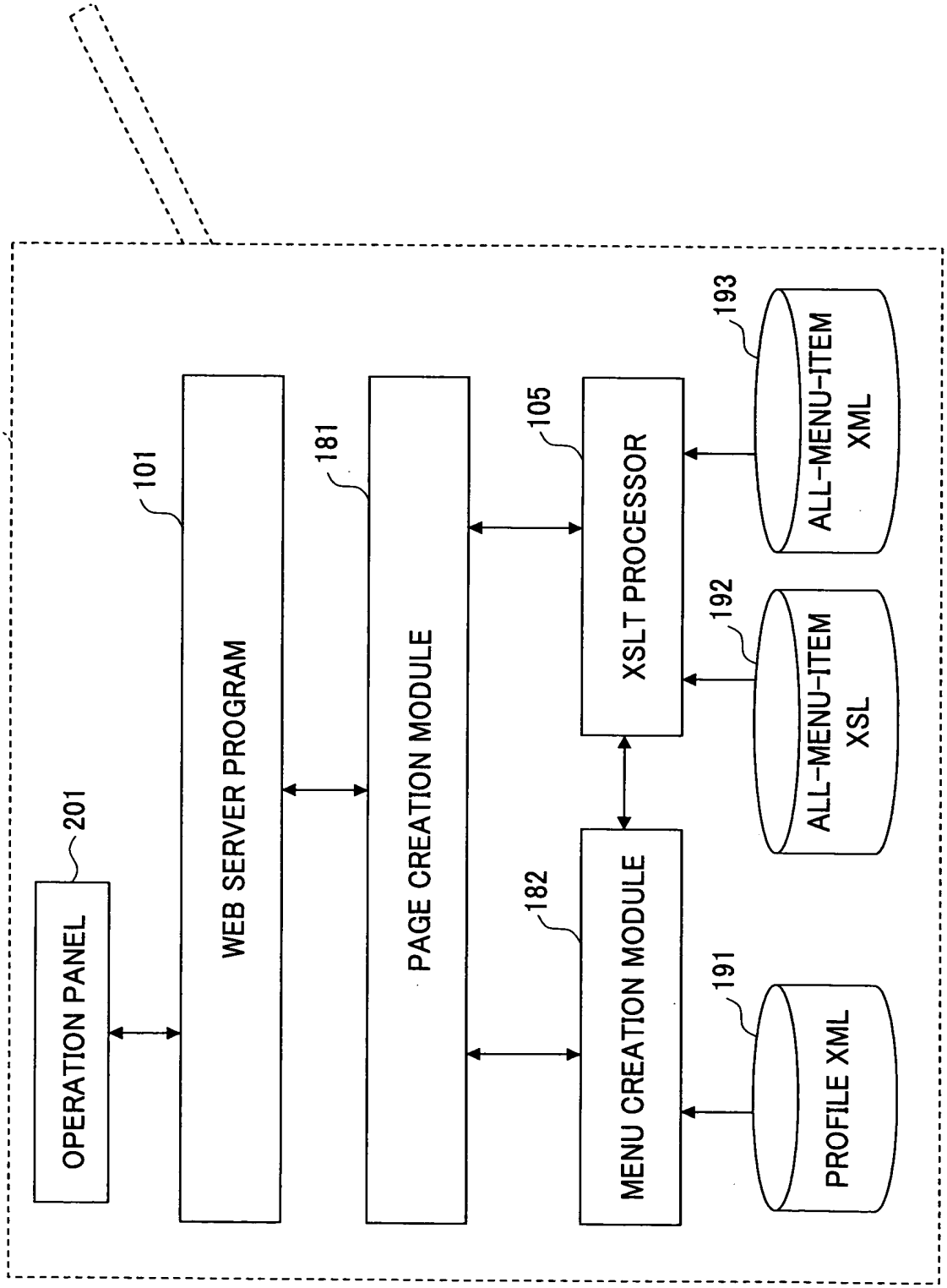
FIG.29



	NAME	CREATED BY	DATE OF REG.	DATE OF UPDATE	TERM	STATE	SIZE
☑	AAA	・・・・・・	2003/04/05				
☐	BBBBBB	・・・・・・	2002/05/05				
☐	CCCCCC	・・・・・	2003/04/05				
☐	DDDDDD	・・・・・	2003/04/05				
☐	EEEEEE	・・・・・	2003/04/05				
☐	FFFFFFFF	・・・・・	2003/04/05				

OBLON, SPIVAK, ET AL
DOCKET #: 251215US2
INV: Takaya MATSUISHI
SHEET 29 OF 30

FIG.30


200
OPERATION PANEL
201
WEB SERVER PROGRAM
101
PAGE CREATION MODULE
181
MENU CREATION MODULE
182
XSLT PROCESSOR
105
PROFILE XML
191
ALL-MENU-ITEM XSL
192
ALL-MENU-ITEM XML
193